

## Message Text

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ORIGIN PM-04

INFO OCT-01 EUR-12 ISO-00 SS-15 NSC-05 SP-02 CIAE-00

INR-07 NSAE-00 PRS-01 BIB-01 FCC-01 OTPE-00 COME-00

EB-07 L-03 /059 R

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R 160114Z JAN 76

FM SECSTATE WASHDC

TO AMEMBASSY OTTAWA

INFO SECDEF WASHDC

CSAF WASHDC/XOXXI/RDSC

AFSC ANDREWS AFB/DOSF/DLCEA

AFAL WRIGHT-PTRSN OH/AAD

C O N F I D E N T I A L STATE 011082

E.O. 11652:ADS-DECLASSIFY UPON COMPLETION OF NEGOTIATIONS

TAGS: MARR, CA, DA

SUBJECT: REQUEST FOR OPERATING RIGHTS IN SUPPORT OF PROJECT  
1227.

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1. AS PART OF THE ADVANCED MICROWAVE TECHNOLOGY TEST  
PROGRAM, LINCOLN LABORATORY PLANS TO LAUNCH SATELLITES  
LES-8 AND LES-9 INTO EQUATORIAL ORBITS, ONE OVER THE  
ATLANTIC OCEAN AND THE OTHER OVER THE PACIFIC OCEAN. THE  
SATELLITES WILL HAVE TRANSPONDERS CAPABLE OF BOTH SIGNAL  
PROCESSING AND FREQUENCY TRANSLATION. EACH SATELLITE  
EMPLOYS EARTH COVERAGE (EC) AND NARROW BEAM (NB) ANTENNAS.  
A MILLIMETER-WAVE COMMUNICATIONS TERMINAL IS BEING  
INSTALLED IN BOTH A C-135 TYPE AIRCRAFT AND A ROOFTOP  
SHELTER AT WRIGHT-PATTERSON AFB (WPAFB), OHIO. THE  
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MILLIMETER-WAVE COMMUNICATIONS TERMINALS WILL PROVIDE

RADIO FREQUENCY TRANSMISSION AND RECEPTION VIA THE TWO  
SYNCHRONOUS SATELLITES.

2. TH- OBJECTIVES OF THE TEST PROGRAM ARE TO DERIVE FROM  
THE HIGHLY INSTRUMENTED TERMINALS SUFFICIENT  
TECHICAL INFORMATION TO MORE PRECISELY DEFINE THE  
REQUIRED MODULATION TECHNIQUES, MEDIA CHARACTERISTICS AND  
EQUIPM"NT PERFORMANCE NECESSARY TO PROVIDE A MORE  
DIVERSIFIED OPERATIONAL AIRBORNE COMMAND POST CAPABILITY.

ADDITIONALLY, THE TEST SHOULD DEMONSTRATE THE OPERATIONAL  
FEASIBILITY OF PROVIDING HIGHLY RELIABLE COMMUNICATIONS  
BETWEEN BOTH GEOGRAPHICALLY SEPARATED AIRBORNE COMMAND  
POSTS AND FORCE ELEMENTS. THE FLIGHT TESTING SHOULD  
RESULT IN QUANTITATIVE DATA FOR EVALUATION OF THE  
RELATIONSHIP BETWEEN DIFFERING CONDITIONS AND COMMUNICA-  
TIONS RELIABILITY. TESTS ARE PLANNED AT VARIOUS TIMES  
OF DAY, AIRCRAFT ALTITUDES, SPEED AND ATTITUDE, CLIMATIC  
CONDITIONS, DISTANCE BETWEEN TERMINALS AND OVER VARIOUS  
TERRAIN. THE COMMUNICATIONS TERMINALS ARE DESIGNED  
TO TRANSMIT/RECEIVE DIGITAL DATA IN THE FORM OF VOICE  
CODED VOICE AND TELETYPE INFORMATION IN THE 36.0 TO 38.6  
GHZ AND 225-400 MHZ BANDS. RADIO FREQUENCY AUTHORIZATION  
IN ACCORDANCE WITH AFM 100-31 HAS BEEN REQUESTED.

3. THE FLIGHT PLAN FOR ACHIEVING THE OBJECTIVES OF  
PROJECT 1227 AND THE ASSOCIATED LES 8/9 EXPERIMENTS  
REQUIRES FLIGHTS TO AND FROM CANADA AND GREENLAND. OVER-  
FLIGHTS WOULD BE ACCOMPLISHED ON A NON-INTERFERENCE BASIS.  
GENERAL AREAS OF OVERFLIGHTS WOULD BE: (A) GREAT CIRCLE  
ROUTE FROM WPAFB TO ALASKA AND RETURN; (B) FROM WPAFB IN  
THE DIRECTION OF GOOSE BAY, NEWFOUNDLAND ENROUTE TO  
THULE AB, GREENLAND AND RETURN; (C) FROM THULE AB WEST  
TO ABOUT 105 W. LONGITUDE AND RETURN AND (D) THULE AB  
EAST TO ABOUT 1 W., THEN SOUTHWEST TO THE SOUTHERN TIP OF  
GREENLAND, THEN NORTH TO THULE AB.

4. THE FOLLOWING SCHEDULE IS PROJECTED FOR THE CANADIAN  
AND GREENLAND OPERATIONS: JUNE-JULY 1976 (10 TO 14 DAY  
PERIOD); JULY-AUGUST 1977 (10 TO 14 DAY PERIOD); JULY-  
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AUGUST 1978 (10 TO 14 DAY PERIOD). IT IS NECESSARY TO  
OVERFLY CANADA AND GREENLAND TO EXPERIENCE THE REQUIRED  
CLIMATIC CONDITIONS. THE TIME OF THE FLIGHT COULD BE  
DELAYED AS MUCH AS 30 DAYS AND STILL MEET THE REQUIREMENTS  
OF THE TEST. APPROXIMATELY 16 MILITARY, 8 CIVILIANS, AND  
4 CONTRACTOR PERSONNEL WILL PARTICIPATE IN THE TEST  
FLIGHTS. ALL ARE U.S. CITIZENS. PROJECT DATA MAY BE  
RELEASED TO GOC AND GOVERNMENT OF DENMARK UPON REQUEST.

THE DATA MAY BE OF USE IN OTHER COMMUNICATIONS RESEARCH.

5. REQUEST EMBASSY SEEK APPROVAL OF THE GOC FOR THE PROPOSED OVERFLIGHTS. THE OPERATING AGENCY WILL PROVIDE SPECIFIC INFORMATION FOR EACH FLIGHT, AS REQUIRED BY THE FOREIGN CLEARANCE GUIDE, AT A LATER DATE. THE GREENLAND OPERATIONS WILL BE CONTAINED IN THE REQUEST FOR SUCH PROGRAMS THAT IS SUBMITTED ANNUALLY TO EMBASSY COPENHAGEN FOR APPROVAL BY THE GOVERNMENT OF DENMARK.  
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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** MICROWAVE EQUIPMENT, COMMUNICATION SATELLITES, PROGRAMS (PROJECTS)  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 16 JAN 1976  
**Decaption Date:** 01 JAN 1960  
**Decaption Note:**  
**Disposition Action:** RELEASED  
**Disposition Approved on Date:**  
**Disposition Authority:** saccheem  
**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
**Disposition Event:**  
**Disposition History:** n/a  
**Disposition Reason:**  
**Disposition Remarks:**  
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**Document Unique ID:** 00  
**Drafter:** CDR GRUNAWALT;PM/ISO:RWMASSON:DME  
**Enclosure:** n/a  
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**Errors:** N/A  
**Film Number:** D760017-0224  
**From:** STATE  
**Handling Restrictions:** n/a  
**Image Path:**  
**ISecure:** 1  
**Legacy Key:** link1976/newtext/t19760149/aaaabrju.tel  
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**Office:** ORIGIN PM  
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**Original Handling Restrictions:** n/a  
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**Previous Classification:** CONFIDENTIAL  
**Previous Handling Restrictions:** n/a  
**Reference:** n/a  
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**Subject:** REQUEST FOR OPERATING RIGHTS IN SUPPORT OF PROJECT 1227.  
**TAGS:** MARR, CA, DA, LINCOLN LABORATORIES  
**To:** OTTAWA  
**Type:** TE  
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